

What is claimed is:

1. A polyacetal resin composition which comprises  
a polyacetal resin (A) and at least one member selected  
5 from the group consisting of a phenol component (B1) and  
an amino acid (B2),

wherein the proportion of the phenol component (B1)  
is 0.001 to 1 part by weight and the proportion of the amino  
acid (B2) is 0.001 to 10 parts by weight relative to 100  
10 parts by weight of a polyacetal resin (A).

2. A composition according to claim 1, which is  
substantially free from a phosphorus-containing flame  
retardant.

3. A composition according to claim 1, wherein the  
15 phenol component (B1) comprises at least one member  
selected from the group consisting of a resin of which a  
main chain and a side chain has an aromatic ring having  
a hydroxyl group, and a polyphenol.

4. A composition according to claim 1, wherein the  
20 phenol component (B1) comprises at least one member  
selected from the group consisting of a novolak  
phenol-series resin, a phenol aralkyl-series resin, a  
polyvinyl phenol-series resin, a polyhydric phenol, a  
bisphenol, a trisphenol, a catechin compound, a teanine,  
25 a tannin and a lignin.

5. A composition according to claim 1, wherein the  
phenol component (B1) comprises at least one member

selected from the group consisting of a novolak random phenol-series resin, a high-orthonovolak phenol-series resin, a vinylphenol homo- or copolymer, a catechin compound and a lignin.

5           6. A composition according to claim 1, wherein the amino acid (B2) comprises at least one member selected from the group consisting of an  $\alpha$ -amino acid, a  $\beta$ -amino acid, a  $\gamma$ -amino acid and a  $\delta$ -amino acid.

          7. A composition according to claim 1, wherein the  
10 amino acid (B2) comprises at least one  $\alpha$ -amino acid selected from the group consisting of a monoaminomonocarboxylic acid, a monoaminodicarboxylic acid, and a diaminomonocarboxylic acid.

          8. A composition according to claim 1, wherein the  
15 proportion of the phenol component (B1) is 0.001 to 0.7 part by weight relative to 100 parts by weight of the polyacetal resin (A).

          9. A composition according to claim 1, the  
proportion of the amino acid (B2) is 0.01 to 5 parts by  
20 weight relative to 100 parts by weight of the polyacetal resin (A).

          10. A composition according to claim 1, which further comprises at least one member selected from the group consisting of an antioxidant, a heat stabilizer, a  
25 processing stabilizer, a weather (light)-resistant stabilizer and a coloring agent.

          11. A composition according to claim 10, wherein

the weight ratio of at least one member selected from the group consisting of the phenol component (B1) and the amino acid (B2) relative to the antioxidant is 99/1 to 10/90.

12. A composition according to claim 10, wherein  
5 the heat stabilizer comprises at least one member selected from the group consisting of (a) a basic nitrogen-containing compound, (b) a metal salt of an organic carboxylic acid, (c) an alkali or alkaline earth metal compound, (d) a hydrotalcite, and (e) a zeolite.

10 13. A composition according to claim 10, wherein the weight ratio of at least one member selected from the group consisting of the phenol component (B1) and the amino acid (B2) relative to the heat stabilizer is 99/1 to 10/90.

14. A polyacetal resin composition which  
15 comprises a polyacetal resin (A) and at least one member selected from the group consisting of a phenol component (B1) and an amino acid (B2), and which is substantially free from a phosphorus-containing flame retardant, wherein a total amount of a free monomer of a phenol and a dimer  
20 of a phenol is not more than 5% by weight in the resin (B1), and the proportion of at least one member selected from the group consisting of the phenol component (B1) and the amino acid (B2) is 0.001 to 0.7 part by weight relative to 100 parts by weight of the resin (A).

25 15. A composition according to claim 14, wherein the proportion of at least one member selected from the group consisting of the phenol component (B1) and the amino

acid (B2) is 0.005 to 0.5 part by weight relative to 100 parts by weight of the resin (A).

16. A process for producing a polyacetal resin composition, which comprises mixing at least one member  
5 selected from the group consisting of a phenol component (B1) and an amino acid (B2) with a polyacetal resin (A), wherein the proportion of the phenol component (B1) is 0.001 to 1 part by weight and the proportion of the amino acid (B2) is 0.001 to 10 parts by weight relative to 100 parts  
10 by weight of a polyacetal resin (A).

17. A process according to claim 16, wherein the composition is substantially free from a phosphorus-containing flame retardant.

18. A process according to claim 16, which further  
15 comprises kneading and extruding the mixture with an extruder to prepare the composition.

19. A shaped article formed with a composition recited in claim 1.

20. A shaped article according to claim 19,  
20 wherein (1) the emission of formaldehyde from the shaped article which is maintained in a closed space for 24 hours at a temperature of 80°C is not more than 2  $\mu\text{g}$  per one  $\text{cm}^2$  of the surface area of the article.

21. A shaped article according to claim 19, which  
25 is at least one member selected from the group consisting of an automotive part, an electric or electronic device part, an architectural or pipeline part, a household

utensil or cosmetic article part, a medical device part  
and a photographic device part.